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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION N
09/830,686	08/03/2001	Keiji Yano	027650-928	9925
21839 7590 10/06/2004			EXAMINER	
BURNS DO	ANE SWECKER & MA	DURAND, PAUL R		
POST OFFICE BOX 1404 ALEXANDRIA, VA 22313-1404			ART UNIT	PAPER NUMBER
	, ·		3721	

DATE MAILED: 10/06/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/830,686	YANO, KEIJI			
		Examiner	Art Unit			
		Paul Durand	3721			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
THE - Exte after - If the - If NC - Failt Any	ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. a period for reply specified above is less than thirty (30) days, a repl ore to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time y within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE!	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	1) Responsive to communication(s) filed on 23 August 2004.					
2a)□	•	s action is non-final.				
3)□						
Disposit	ion of Claims					
5)□ 6)⊠ 7)□	4) ⊠ Claim(s) 9,10,13-17,19-23 and 26-28 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 9,10,13-17,19-23 and 26-28 is/are rejected.					
Appliçat	ion Papers					
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>03 August 2001</u> is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	a) accepted or b) objected to drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority (under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
	ce of References Cited (PTO-892)	4) ☐ Interview Summary Paper No(s)/Mail Da				
3) 🔲 Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date		ate : Patent Application (PTO-152)			

Art Unit: 3721

DETAILED ACTION

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 5/24/04 has been entered.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 9-11,14-17,20-24,27 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sadler (US 5,231,817) in view of Fielibert (US 3,679,509) in further view of Condo et al (US 3,381,441) In regard to claims 9,16 and 22, Sadler discloses the invention substantially as claimed including a heat sealing device as part of a vertical form and fill machine, comprised of a operation jaw 30, with a flat surface, facing the seal zone, a counter jaw 31, comprised of a curved surface 56, facing the seal zone, that transversely seals a package 99 filled with a liquid, the seal jaws 30 and 31 being able to collapse the tube and remove the air from the pouch before sealing (see Figs. 1, 2a, 2b, Abstract, C3, L8-27 and C4, L33-35). What Sadler does not disclose is the use

Art Unit: 3721

of a curved operation surface that is in the seal zone and the specific sealing of the package while moving the liquid during sealing. However, Fielibert teaches that it is old and well known in the art of sealing packages to provide a sealing apparatus with a sealing head comprised of sealing members 9 and 11, comprised of flat sealing surface 10, chevron shaped surfaces 12 and 13, that faces and contacts the seal zone for the purpose of providing a sealed area that is free from contaminants (see Figs.1,2 and C3, L6-14). Furthermore, Condo teaches that it is old and well known in the art to provide a sealing machine with means for flatten the tube prior to sealing for the purpose of removing the liquid from the sealing area of a package (see C2, L10-18). Therefore, it would have been obvious to one having ordinary skill in the art to have modified the invention of Sadler with the flattening means as taught by Condo and Fielibert for the purpose of increasing sealing capability.

Furthermore, regarding the limitation of the operation surfaces being formed with multiple raised ridges or chevron areas, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have provided multiple raised ridges or chevron areas since it has been held that mere duplication of the essential working parts of a device involves only routine skill in the art. <u>St. Regis Paper</u> Co., 193 USPQ 8.

In regard to claims 10,17 and 23, Sadler discloses the invention as claimed including a counter jaw 30 with a curved surface 56 that is in the form of a chevron

In regard to claims 15 and 28, Sadler discloses the invention as claimed including a resistance body 30 for forming a seal zone (see Figs. 2a, 2b). Furthermore,

Art Unit: 3721

the Examiner gives little patentable weight to the packaging material being comprised of a metal and thermoplastic layer since the intended use of the device is independent of the material used to package the product.

In regard to claims 14,20,21 and 27, Sadler discloses the invention substantially as claimed including resistance heating device for sealing members 30. What Sadler does not disclose is ultrasonic heating means for sealing packages. However Condo teaches that it is old and well known in the art to provide a sealing machine with an ultrasonic sealing device 19 with sealing member 20, heated by ultrasonic waves for the purpose of increasing manufacturing efficiency (see Figs. 1,5,8 and C3, L63-68). Therefore, it would have been obvious to one having ordinary skill in the art to have modified the invention of Sadler with the ultrasonic heating means for sealing packages as taught by Condo for the purpose of increasing manufacturing efficiency.

In regard to claims 15 and 27, the Examiner gives little patentable weight to the packaging material being comprised of a metal and thermoplastic layer since the intended use of the device is independent of the material used to package the product.

4. Claims 13, 19 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sadler in view of Fielibert in further view of Konno et al (US 5,787,690).

The modified invention of Sadler discloses the invention substantially as claimed including resistance heating device for sealing members 30. What the modified invention of Sadler does not disclose is inductance heating means for sealing packages. However Konno teaches that it is old and well known in the art to provide a sealing machine with a transverse sealing device 1 with sealing member 35 and 36, heated by

Art Unit: 3721

inductor 19 for the purpose of increasing manufacturing efficiency (see Figs. 4-7 and C2, L20-29). Therefore, it would have been obvious to one having ordinary skill in the art to have modified the invention of Sadler in view of Fielibert with the inductance heating means for sealing packages as taught by Konno for the purpose of increasing manufacturing efficiency.

In regard to claims 13 and 26, the Examiner gives little patentable weight to the packaging material being comprised of a metal and thermoplastic layer since the intended use of the device is independent of the material used to package the product.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul Durand whose telephone number is 703-305-4962. The examiner can normally be reached on 0730-1800, Monday - Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rinaldi I Rada can be reached on 703-308-2187. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 3721

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Paul Durand September 29, 2004

> EUGENE KIM BRIMARY EXAMINER

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